

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,099,411 B1  
APPLICATION NO. : 09/901507  
DATED : August 29, 2006  
INVENTOR(S) : Wu et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**IN THE PATENT:**

Column 1, Line 31: Delete "A" after "during"  
Column 1, Line 66: Delete "at" after "literature"  
Column 2, Line 6: Delete "IDPC" and insert -- LDPC--  
Column 2, Line 19: Delete "IDPC" and insert -- LDPC --  
Column 2, Line 21: Delete "maybe" and insert -- may be --  
Column 2, Line 54: Insert -- of -- after "pair"  
Column 4, Line 25: Delete "a" after "drive"  
Column 4, Line 63: Delete "fit" before "communication"  
Column 7, Line 15: Delete "(ILR) and insert -- (LLR) --  
Column 6, Line 13: Equation 5: Delete "|y" and insert -- ||y --

Column 6, Line 13: Equation 5: Delete "| 2" and insert -- || 2 --

Column 8, Line 30:  
Equation 6:  
Delete "|y - H ⊗(x\_s + x\_e)| 2" and insert -- ||y - H ⊗(x\_s + x\_e)|| 2 --

Column 8, Line 30:

Equation 6: Delete "|y - H ⊗(x\_s + x\_e)| 2" and insert -- ||y - H ⊗(x\_v + x\_e)||y --

Column 8, Line 37:

Equation 7: Delete "|y - H| ⊗ x\_k| 2" and insert -- "||y - H ⊗ x\_k|| 2" --  
Delete "|γ - H ⊗(x\_v + x\_{e,min})| 2" and insert -- ||γ - H ⊗(x\_v + x\_{e,min})|| 2 --  
Delete each occurrence of "t" and insert -- i --

Column 8, Line 57: Equation 8: Delete each occurrence of "t" and insert -- i --  
Column 9 Line 29: Delete "X\_k" and insert -- x\_k --

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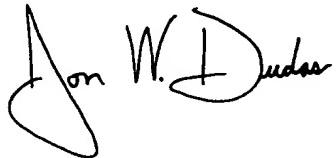
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**IN THE PATENT:**

Column 9, Line 58: Delete "Ed" after "soft"  
Column 11, Line 9: Delete "(HR)" and insert -- (FIR) --  
Claim 13, Line 25; Insert -- storage -- before "medium"  
Claim 72, Line 28: Insert -- includes--after "software"

Signed and Sealed this

Twenty-sixth Day of December, 2006



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*